

USSN. 09/742,560
Examiner: YIP, WINNIE S
Group A.U.: 3637
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Amendment to the Claims

Claims 20- 37 (cancelled)

38.(Currently amended) A reinforcement for prefabricated concrete panels, comprising profiles adapted to be connected together to form a frame and adapted to be embedded in a concrete body of a panel, said profiles having coplanar and non-coplanar portions, at least some of said profiles having perforations and undulations which are suitable to increase the bonding between the reinforcement and the concrete body of the panel, wherein said profiles have each a substantially Σ-shaped transverse cross-section, with two substantially parallel end wings joined by an intermediate wing which has at least two portions inclined with opposite inclinations, wherein said profiles are made of metal and said undulations are formed by plastic deformations of said profiles, said undulations being defined at the end of said end wings so as to face one another.

39.(Previously added) The reinforcement according to claim 38, wherein said intermediate wing has a central portion and two end portions which are joined to said end wings and are arranged on planes substantially perpendicular to the planes on which said end wings are arranged, said central portion being connected to said end portions by said two inclined portions.

40. (Previously added) The reinforcement according to claim 38, comprising a frame which is composed of longitudinal profiles which are reciprocally connected by transverse profiles, at least some of said profiles of the frame having said perforations and undulations suitable to increase the bonding between said profiles and the concrete body of the panel.

41. (Previously added) The reinforcement according to claim 38, wherein said undulations are comprised on non-coplanar portions of said profiles.

42. (Previously added) The reinforcement according to claim 38, wherein said undulations are comprised on coplanar portions of said profiles.

43. (Previously added) The reinforcement according to claim 38, wherein said undulations are comprised on regions between said perforations.

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44. (Previously added) The reinforcement according to claim 38, wherein said undulations are comprised on an edge of said perforations.

45. (Previously added) The reinforcement according to claim 38, wherein said undulations have a constant height.

46. (Previously added) The reinforcement according to claim 38, wherein said undulations have a height or depth which increases toward the edges of the profiles.

47. (Previously added) The reinforcement according to claim 38, wherein said undulations have parallel sides.

48. (Previously added) The reinforcement according to claim 38, wherein said undulations have sides which are inclined with respect to each other.

49. (Previously added) The reinforcement according to claim 38, wherein said undulations have intersecting sides.

50. (Previously added) The reinforcement according to claim 40, wherein in said frame at least longitudinal sides thereof are constituted by two of said profiles which are coupled by means of two end wings thereof.

51. (Cancelled).

52. (Previously added) A prefabricated concrete panel, comprising the reinforcement according to claim 38.

53. (Currently amended) A reinforcement for prefabricated concrete panels, comprising profiles to be embedded in a concrete body of a panel and adapted to be connected to compose a frame, said profiles having coplanar and non-coplanar portions, at least some of said profiles having perforations and undulations which are suitable to increase the bonding between the reinforcement and the concrete body of the panel, wherein said undulations are comprised on non-coplanar portions of said profiles and are arranged at the end of portions of said profile that face one another, wherein said profiles are made of metal and said undulations are formed by plastic deformations of said profiles.

54. (Previously added) The reinforcement according to claim 53, comprising a frame which is composed of longitudinal profiles which are reciprocally connected by transverse profiles, at least some of said profiles of the frame having said perforations and undulations suitable to increase the bonding between said profiles and the concrete body of the panel.

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55.(Previously added) The reinforcement according to claim 53, wherein said profiles have a substantially C-shaped transverse cross-section, with two substantially parallel end wings joined by an intermediate wing.

56. (Currently amended) The reinforcement according to claim 53, wherein said profiles have each a substantially Σ -shaped transverse cross-section, with two substantially parallel end wings joined by an intermediate wing which has at least two portions inclined with opposite inclinations.

57.(Previously added) The reinforcement according to claim 53, wherein said undulations are comprised on regions between said perforations.

58. (Previously added) The reinforcement according to claim 53, wherein said undulations are comprised on an edge of said perforations.--

59. (Previously added) The reinforcement according to claim 53, wherein said undulations have a constant height.

60. (Previously added) The reinforcement according to claim 53, wherein said undulations have a height or depth which increases toward the edges of the profiles.

61. (Previously added) The reinforcement according to claim 53, wherein said undulations have parallel sides.

62. (Previously added) The reinforcement according to claim 53, wherein said undulations have sides which are inclined with respect to each other

63. (Previously added) The reinforcement according to claim 53, wherein said undulations have intersecting sides.

64. (Previously added) The reinforcement according to claim 55, wherein in said intermediate wing there are perforations which are suitable to support inserts which can be embedded in the concrete body of the panel and can be used to lift said panel.

65. (Cancelled).

66. (Previously added) A prefabricated concrete panel, comprising the reinforcement according to claim 53.